

ABSTRACT

An air conditioning system for vehicles includes a compressor and a variable displacement compressor provided in a refrigeration cycle, means for operating the variable displacement compressor, compressor operation switching means for switching the compressor operation between the compressor and the variable displacement compressor, and variable displacement compressor feedforward displacement value calculation means for calculating a displacement control value of the variable displacement compressor as an input to the refrigeration cycle so as to obtain a target control displacement after the compressor operation is switched. After the operation is switched from the compressor to the variable displacement compressor, the variable displacement compressor is started based on the calculated variable displacement compressor feedforward displacement value. When the flow rate of refrigerant varies greatly upon operation switching between the compressor and the variable displacement compressor, it is possible to suppress deterioration of the comfortable feeling of passengers.